

CLAIMS

5 .1.- Application of compositions of microorganisms for biologically controlling the cryptogamic vine diseases, characterized in that it comprises in a mixture at least one bacterium and at least one yeast, the bacterium or bacteria and the yeast or yeasts being non-toxic to the plant.

10 2.- Application according to claim 1, characterized in that the bacterium or bacteria are chosen from the *Bacillus*, *Pseudomonas*, *Serratia* or *Streptomyces* genera.

15 3.- Application according to claim 2, characterized in that the bacterium or bacteria are from the *Bacillus megaterium* species and/or from the *Bacillus subtilis* species.

 4.- Application according to any one of claims 1 to 3, characterized in that the yeast or yeasts are of the *Debaryomyces* or *Pichia* genus.

20 5.- Bacterial strain, characterized in that it is the *Bacillus megaterium* (BP B-01) strain deposited on the 20th June 2002 at the CNCM under No. I-2897.

 6.- Bacterial strain, characterized in that it is the *Bacillus subtilis* (BP B-10) strain deposited on the 20th June 2002 at the CNCM under No. I-2940.

25 7.- Yeast strain, characterized in that it is the yeast of the *Debaryomyces* (BP Y-01) genus deposited on the 20th June 2002 at the CNCM under no. I-2896.

30 8.- Biofungicide preparation, characterized in that it contains an effective quantity of at least one composition of microorganisms comprising in a mixture at least one bacterium and at least one yeast, the bacterium or bacteria and the yeast or yeasts being non-toxic to the plant, as well as a composition of filamentous fungi, in particular of the *Pichia*, *Pythium*, *Trichoderma*,

Gliocladium, *Ampelomyces*, *Talaromyces*, *Epicoccum* genus in combination with an inert vehicle.

9.- Biofungicide preparation according to claim 8, characterized by concentrations of yeast of 0.5 to 0.75×10^{10} and of bacteria of 0.30 to 0.50×10^{10} .

10.- Biofungicide preparation, characterized in that it contains an effective quantity of a mixture of strains according to claims 5 to 7.

11.- Application of a preparation according to one of claims 8 to 10, for the treatment of cryptogamic diseases in plants, in particular for crop plants, in particular for the aerial parts for example vine, tomato, strawberry, wheat, tobacco, sugar cane, corn, rice, fruit-trees, tubers for example potatoes or beet.

12.- Application of a preparation according to one of claims 8 to 10 for the treatment of powdery mildew, blue mould or *Botrytis* of the vine, and *eutypa* and *esca*.

13.- Application according to claim 11 or 12, characterized in that it comprises a treatment in particular by spraying with the bacterium or bacteria and said yeast or yeasts, according to the pathogen pressure, in particular according to a ratio of approximately 50/50%.

14.- Application according to any one of claims 11 to 13, characterized in that it also comprises a treatment using a composition of filamentous fungi, in particular of the *Pichia*, *Pythium*, *Trichoderma*, *Gliocladium*, *Ampelomyces*, *Talaromyces*, *Epicoccum* genus.

15.- Application of the biofungicide preparation according to any one of claims 8 to 10 as eliciting agent for the production of substances of interest by the treated plant, in particular of resveratrol.